L 16048-66 EWT(m)/EPF(n)-2/EWP(t) IJP(c) JD/JG/GS

ACC NR: AT6005603 SOURCE CODE: UR/0000/64/000/000/0229/0234

AUTHOR: Kharlamov, I. P.; Yakovlev, P. Ya.; Lykova, M. I.

BHI

ORG: Tanlichermet

TITLE: New method of separating niobium from tantalum

SOURCE: Vsesoyuznaya konferentsiya rabotnikov metallurgicheskoy i khimicheskoy promyshlennosti i sotrudnikov vuzov. Rostov-on-Don, 1962. Peredovyye metody khimicheskoy tekhnologii i kontrolya proizvodstva (Progressivè methods of chemical engineering and production control); trudy konferentsii. Rostov-on-Don, Izd-vo Rostov-skogo univ., 1964, 229-234

TOPIC TAGS: niobium, tantalum, quantitative analysis, carbonate

ABSTRACT: A study was made to determine whether niobium and tantalum can be separated by fusing a mixture of their pentoxides with alkali metal carbonates (Na_2CO_3 , K_2CO_3 , and $KNaCO_3$). The effect of temperature and fusion time, flux composition, method of separation of total metal oxides, and amount of fused metal oxides on the degree of separation of Nb from Ta was investigated. It was found that sodium and

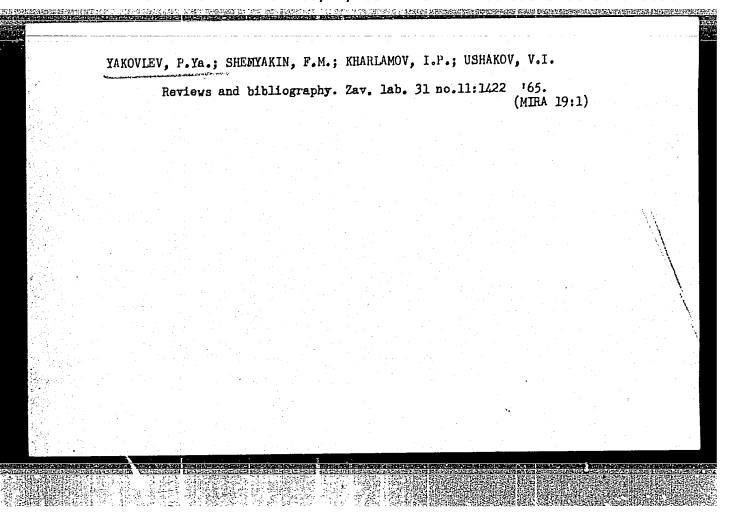
Card 1/2

soluble potas lum does not of Nb from Ta An accurate a termining Nb ative error is	ses together wit sium hexaniobate react under thes is achieved onl nd reproducible and Ta in comple s ±4%. Orig. ar	th this salt at 8, which absorbs se conditions. A y when the Nb contechnique based a alloys. The data has: 4 tables	s for the quantitate conate gave promise 350°C after 5 min, strongly in the falsatisfactory quantient of the sampl on these findings etermination lasts s. F: 001/ OTH REF:	changing into the changing in the changing in the change of the changing in the changi	lobium vater- tanta- ution

YAKOVLEV, P.Ya.; RAZUMOVA, G.P.

Photometric determination of tin by pyrocatechol violet.
Zav. lab. 31 no.11:1307-1308 '65. (MIRA 19:1)

l. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni Bardina.



YAKOVIEV, P. YA.

YAKOVIEV, P. YA. — "The Ageing of Saltpeter Baths during the Thermal Processing of Steel." Min Higher Education, Gorkiy Polytechnical Institute imeni A. A. Zhdanov, Gorkiy, 1956 (Dissertation for the degree of Candiate in Chemical Science.)

KNIZHNAY LETOPIS No 41, October 1956

AUTHOR: Yakovlev, P. Ya., Engineer

SOV/129-58-10-10/14

TITLE:

The Heating Capacity of Saltpetre Baths (Nagrevayushchaya

sposobnost' selitrovykh vann)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 10,

pp 47-50 (USSR)

ABSTRACT: During normal operation of heating baths, the salts have a tendency to age and they become unsuitable for

heat treatment if no fresh salts are added.

The author of this paper investigated some saltpetre media which are most frequently used during isothermal and step-wise hardening and also during tempering of steels. For determining the heating properties of molten salts, a mercury thermometer with a scale up to 500°C was used, the end of which was fitted into a steel ball of 33.85 mm dia. By means of this device the heating capacity of saltpetre baths at 400 and 500°C was determined

as a function of the degree of ageing, the chemical composition and other factors. For this purpose the ball serving as a thermometer was submerged into the

molten media and readings were made every 10 to 15 secs

Card 1/5 from which, time-temperature and heating speed-temperature

The Heating Capacity of Saltpetre Baths

SOV/129-58-10-10/14

curves were graphed; simultaneously chemical analyses were made of the saltpetre baths. The test results of saltpetre baths at various stages of ageing, under plant conditions, are graphed in Fig.1. In Fig.2 the influence is graphed of barium nitrate on the heating capacity of an aged bath. In Fig. 3 the heating capacity is graphed of fresh saltpetre media and of molten lead. It was found that addition of chlorides (NaCl, KCl, BaCl, CaCl) increases the oxidation ability of the saltpetre medium and, therefore, intensifies the ageing process and does not bring about an improvement in the heating properties. Addition of NaOH or KOH to saltpetre mixtures also intensifies their ageing. intensifies their ageing. Sodium nitrate is not recommended for temperatures of 500°C and higher since it dissociates easily and the sodium oxide thus generated causes ageing; thus, addition of sodium nitrite does not improve the heating properties. Admixtures falling into the bath in the form of iron oxides intensify the ageing. Experiments were also made for obtaining information about the rational choice of the composition of saltpetre baths. It can be seen from the results, which are entered in

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The Heating Capacity of Saltpetre Baths

SOV/129-58-10-10/14

Table 2, that the difference between the maximum speeds of heating for sodium saltpetre and for the eutectic mixture at 400°C amounts to 0.9-1°C/sec and for the same at temperatures of 500°C is only 0.1°C/sec. Thus, at temperatures of 500°C and above any composition of the saltpetre bath is applicable. The following conclusions are arrived at:

1. The heating ability of saltpetre baths depends on the degree of ageing, the older the bath the less is its heating ability.

2. For regeneration of salts of ageing baths it is necessary to add periodically non-aqueous barium nitrate in a quantity depending on the chemical analysis of the

3. The salts NaCl, KCl and the alkalies NaOH and KOH should not be used as additions since they intensify the chemical activity of the saltpetre medium and bring about ageing of the bath.

4. If the saltpetre baths are intended for operation at 450-520°C and above sodium nitrite should not be used as Card 3/5 an admixture due to its inadequate stability. If these

The Heating Capacity of Saltpetre Baths

SOV/129-58-10-10/14

baths operate at relatively low temperatures (200 to 300°C) addition of sodium nitrite is advisable.

5. The lower the temperature of the saltpetre medium, the greater the difference between the heating properties of the molten components and their eutectic mixture. Therefore, at low temperatures (200-300°C) the bath should be maintained at exactly the eutectic composition. In the case of operation of saltpetre baths at 350 to 450°C deviations from the eutectic composition are permissible. At 450-520°C and higher it is possible to operate solely with potassium or sodium saltpetre baths or any mixtures of these.

6. For increasing the service life of saltpetre baths with operating temperatures of 450-520°C and above, particularly those containing predominantly sodium saltpetre, it is necessary to clean frequently the silt out of the baths.

Card 4/5

The Heating Capacity of Saltpetre Baths There are 4 figures, 1 table and 3 references, two of which are Soviet, 1 German. SOV/129-58-10-10/14

ASSOCIATION: Gor'kovskiy institut inzhenerov vodnogo transporta (Gorldy Institute of Water Transportation Engineers)

- 1. Salts—Thermodynamic properties 2. Salts—Performance
- 3. Metals-Heat treatment

Card 5/5

CIA-RDP86-00513R001961920006-7 "APPROVED FOR RELEASE: 03/14/2001

AUTHOR:

Yakovlev, P. Ya., Engineer

133-58-4-30/40

TITLE:

Ageing of Saltpetre Baths During the Process of the Thermal Treatment of Steel (Stareniye selitrovykh

vann v protsesse termicheskoy obrabotki staley)

PERIODICAL: Stal', 1958, Nr 4, pp 364-367 (USSR)

ABSTRACT: The process of ageing of salt baths (consisting of NaNo3 and KNOz) during thermal treatment of steels, methods of bath regeneration, the role of additions and admixtures and a rational choice of the bath composition were investigated. The experimental results are shown in Tables 1-4. Conclusions: When the bath is operated within a temperature range 300-350°C its composition should be kept near to the eutectic composition in the temperature range 350-450°C deviations from the eutectoidal composition are permissible; at 450-520°C the maintenance of the eutectoidal composition is not necessary. In order to increase the service life of saltpetre baths with an operating temperature 300-520°C and above (particularly when sodium nitrate is the predominant component) a mechanical cleaning of the bath

Card 1/2 from slurry as well as chemical regeneration in order to

Ageing of Saltpetre Baths During the Process of the Thernal 133-58-4-30/40 Treatment of Steel

> remove ferrites, perferrites and manganates from the liquid phase by additions of boric acid or potassium bichromate or anhydrous barium nitrate, should be carried out often. Under operating conditions 450-520°C and above additions of sodium nitrite are not advantageous as it decomposes easily, increasing the alkalinity of the medium and, therefore, the rate of ageing of the bath.
>
> Under operating conditions of 200-300°C an addition of NaNO2 to the saltpetre mixtures is necessary, as the latter decreases the melting temperature of the medium without undergoing at this temperature a strong decomposition. Chlorides (NaCl, KCl) and alkalies (NaOH, KOH) should not be added to the saltpetre baths used for heat treatment of steel as chlorides and alkalies increase the chemical activity of saltpetre mediums and accelerate the ageing of the baths. Iron oxide admixtures, brought into the saltpetre baths by articles treated, accelerate the ageing process and therefore should be often removed from

Card 2/2

the bath. There are 4 tables.

ASSOCIATION: Gor'kovskiy institut inzhenerov vodnogo transporta (Gor'kiy Institute of Engineers of Water Transport) 1. Steel--Heat treatment 2. Heat treatment--Materials peter--Applications

4. Saltpeter--Properties

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001961920006-7

18(3) AUTHOR:

Yakovlev, P. Ya.

SOV/163-59-1-45/50

TITLE:

Chemical Processes Occurring at Heat Treatment of Steel in Mitnate Baths (Khimicheskiye protsessy, proiskhodyashchiye v selitrovykh vannakh pri termicheskoy obrabotke stali)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959, Nr 1, pp 235-238 (USSR)

ABSTRACT:

In the machine building industry of the USSR nitric baths are more and more used for heat treatment. As, however, the chemical processes occurring during this treatment have hitherto not been known, this investigation was intended to clarify this problem. The author showed that the oxidation process in the nitric bath does not stop at 3Fe + 20₂ = Fe₃0₄, and 2Fe₃0₄ + 0.50₂ = 3Fe₂0₃, but that it proceeds further and that iron is oxidized to the highest oxygen compounds, it is firstly hepta- and then octavalent. Finally perferrates are formed: 2Na₂Fe0₄(2K₂Fe0₄) + 0₂ = 2Na₂Fe0₅(2K₂Fe0₅). In order to ascertain the processes connected with a protracted stay of the steel products in nitric baths, steel chippings were heated in nitric baths through 1, 2, 3, and 5 hours at 500°. It was found that the weight of the chippings increases and that their color changes to

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Chemical Processes Occurring at Heat Treatment of Steel in Nitrate Baths

SOV/163-59-1-45/50

a velvety black. If heating is prolonged even further the weight decreases and the color of the chippings changes to a black or dirty rust shade. The longer the chippings are kept in the bath, the more the weight of the chippings will reduce. It was found that if the steel is kept in the nitric bath for a protracted period the steel surface will be corroded. This is explained by the formation of the ferrates and of the perferrates of alkali metals. Reference is made of another paper (Ref 1) and it is stated that the assertion made in that paper which is to the point that the perferrates of the alkali metals exhibit a green color is incorrect. The green coloring is caused by the presence of manganese. The experiments which were carried out in the course of this work and which are briefly described demonstrate that these perferrates are yellow. The reactions for the qualitative determination of manganates and perferrates of sodium and potassium in nitric melts are investigated. It is shown that the "soda-method" for the determination of perferrates can only be used if no manganese and chromium are contained in the melt. The separation of the manganates and of the perferrates of the alkali metals is based upon their different reaction towards hydrogen peroxide. Aqueous solutions of NaNO, and KNO, salts, which

Card 2/4

Chemical Processes Occurring at Heat Treatment of Steel in Nitrate Baths

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for a long time have been used in the heat treatment of steel and which were neutralized with HCl, after a long rest (20 - 24 hours) again turned basic. According to the author's opinion this can be explained by the following hydrolytic process: Na₂FeO₅ + H₂O -NaHFeO, + NaOH. - It is demonstrated that the nitric medium of the bath, which initially represented a single-or double-component system, turns into a multi-component system after having been used for a heat treatment of steel. The author is of opinion that during a hardening with isothermal transformation the higher oxygen compounds of iron and manganese are destroyed and lower iron and manganese oxides are formed. On this basis the aging process of nitric baths is explained. Practical experience has fully corroborated this theory. The experiments are described and the analyses which substantiate this theory are given. This investigation therefore completely clarified the chemical and physical processes in nitric hardening baths and showed ways and means of using such baths correctly and economically. Besides, methods were found of regenerating such baths. There are 2 tables and 2 Soviet references.

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Chemical Processes Occurring at Heat Treatment of Steel in Nitrate Baths

SOV/163-59-1-45/50

ASSOCIATION:

Gor'kovskiy institut inzhenerov vodnogo transporta

(Gor'kiy Institute of Water Transportation Engineers)

SUBMITTED:

February 14, 1958

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 Samarin, A. M., ed. (Corresponding member, Academy of Sciences, U.S.S.R.)\beta 
eq
 Steel production; handbook (Staleplavil'noye proizvodetvo; apravochnik),
    to 2., Moscow, Izd-vo "Metallurgiya", 1964, 1039 p. illus., biblio., tables. Errata slip inserted. 5,850 copies printed.
 TOPIC TAGS: steel, open-hearth furnace, quality control, refractory
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    Iv. 10v) -- 535
Ca. Avi. Nechanics of furnace gases in open-hearth furnaces (G. M.
Glidley) -- 554

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CL. XVIII. Thermal operation of an open-hearth furnace (Ye. A. Kapustin) --
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ACCESSION NR AM4046730

Part 9. Thermal processes
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Ch. XXII. Analysis of gases in metals and alloys (L.L.Kunin, T. Ya.
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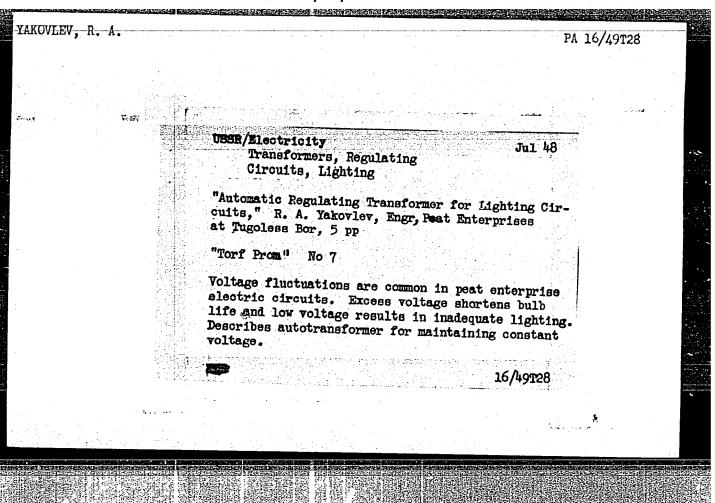
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Part 12. Economics Ch. XXXVI. Technical-economic indicators of steel production (G. V. Vitin and A. G. Lifshita) 956 Part 13. Transportation, refractories, oxygen, classification and characteristics of steels Ch. XXXVII. Transportation (S. S. Berlyand) 980 Ch. XXXVIII. Refractories (M. A. Lur'ye) 993 Ch. XXXVIII. Refractories (M. A. Lur'ye) 1009 Ch. XL. Classification and characteristics of steels (N. V. Matyushina) 1020
SUB CODE: MM SUBMITTED: 30May64 NR REF SOV: 279 Cord 3/3

YAKOVIEV, P.; SHUBIN, A.D., dotsent, nauchnyy rukovoditel'

Automation of production in the logging industry. Sber. nauch.
rab. stud. Petrozav. gos. un. no.6:97-106 '62.

(MIRA 17:11)

1. Kafedra mekhanizatsii lesorazrabotok Petrozavodskogo gosudarstvennogo universiteta.



YAKOVLEY R.G.

PHASE I BOOK EXPLOITATION SOV/3803

Zvyagil'skiy, Leonid Yakovlevich, and Radomir Gerontevich Yakovlev

Pnevmaticheskiye patrony k tokarnym stankam. Bestsangovyy pnevmaticheskiy patron k revol'vernym stankam. Bestsangovyy patron s avtomaticheskoy podachey materiala k revol'vernym stankam (Pneumatic Chucks for Lathes. Pneumatic Chuck Without Collet for Turret Lathes. Chuck Without Collet With Automatic Feed of Work (Series: Obmen peredovym opytom. Seriya: Mekhanicheskaya obrabotka metallov, vyp. 9)

Sponsoring Agencies: Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR; Leningradskiy dom nauchno-tekhnicheskoy propagandy.

Ed.: P.A. Semenenko, Engineer; Tech. Ed.: M.M. Kubneva.

PURPOSE: This booklet is intended for tool designers, production engineers, and students of machine and tool design.

Card 1/2

Pneumatic Chucks (Cont.)

SOV/3803

COVERAGE: A description is given of new designs of pneumatic chucking devices without collet. These new pneumatic chucks are the self-locking type, easy to mount on existing lathes, and said to be superior to the three-jaw pneumatic chucks now used. The text accompanied by a description of operating characteristics. Schematic diagrams of the pneumatic circuits for the actuation of the chucking devices are also presented. No personalities are mentioned. There are 4 Soviet references.

TABLE OF CONTENTS: None given.

AVAILABLE: Library of Congress

Card 2/2

VK/Jb 6-17-60

86887 \$/056/60/039/005/001/051

B029/B079

24.690° AUTHORS:

Zhdanov, A. P., Kuks, I. M., Skirda, N. V., Yakovlev, R.M.

TITLE:

Multiple Production of Particles in the Interaction

Between Nucleons of Energies > 1011 ev and Emulsion Nuclei

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960,

Vol. 39, No. 5(11), pp. 1177 - 1185

counted by means of microscopes of the types MBN-8 (MBI-8),

TEXT: The authors analyzed 80 events of meson production observed in an emulsion chamber consisting of 180 layers of HNK Φ N-P (NIKFI-R) emulsions (area, 10.10 cm²; thickness, 400 μ). This chamber was irradiated for 9 hours at an altitude of 24 km. 120 nuclear interactions with more than five relativistic particles were found. In each of these stars, the number of thin (N_B), gray (N_B), and black (N_h) tracks was counted, and by means of a goniometer the angle $\theta_1/2$ was estimated, which included half the amount of relativistic particles. The grains in the tracks were

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Multiple Production of Particles in the Interaction Between Nucleons of Energies > 10¹¹ ev and Emulsion Nuclei

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MEM-8M (MBI-8M), and Kyk 4005 (Kuk 4005). The number 1 of nucleons of the target nucleus, which were involved in meson production, was calculated from the formulas $N_s = (21)^{1/4}(1+1)\gamma_c^{1/2}$ and $\gamma_c = \left[1-(v_c/c)^2\right]^{-1/2}$ which are valid in Landau's hydrodynamic theory; v_c denotes the velocity of the center-of-mass system of the primary nucleon and of the nucleons of the nucleus. The correlation coefficient is $r = -0.33 \pm 0.18$. These results may be explained as follows: At energies of $10^{11} \div 10^{12}$ eV, the factor γ_c is small, and considerable part of the energy of the primary nucleon may be transferred to the nucleus which is located behind the cylindrical tube. When the energy of the primary nucleon is increased, two processes will compete in meson production: The average multiplicity per nucleon increases, and the number of excited nucleons of the target pucleus decreases. For energies of up to 10^{12} eV the second effect is stronger. The anisotropy in the angular distribution of the shower

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Multiple Production of Particles in the Interaction Between Nucleons of Energies

s/056/60/039/005/001/051 B029/B079

>10¹¹ ev and Emulsion Nuclei

particles may be described by κ_i = log tan θ_i . For constant energies of the primary particle, the anisotropy of nucleon-nucleon showers and showers caused by central collisions of a primary nucleon with a heavy nucleus differ largely. D. S. Chernavskiy (Ref.7) has given a hypothesis concerning the existence of a special type of inhomogeneities in nucleon-nucleon collisions. The present paper leads to the following conclusions: 1) When studying interactions of high-energy nucleons (up to 10^{12} eV) with heavy nuclei, one must take into account the expansions of the nuclear matter tube when striking this matter out of the nucleus. 2) The anisotropy in the angular distribution of nucleon-nuclear showers does not decrease with increasing number of excited nucleons. This holds, at least, for energies of up to $5 \cdot 10^{12}$ ev. 3) In this energy range, the relative probability of accompanying showers as predicted by Chernavskiy does not exceed 0.04. The "accompanying tube" must not be investigated independently of the principal one. 4) The angular distributions of relativistic particles in the showers are homogeneous and can be

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Multiple Production of Particles in the Interaction Between Nucleons of Energies >10¹¹ ev and Emulsion Nuclei

s/056/60/039/005/001/051 B029/B079

exactly described by Gauss functions in the variables $x = \log \tan \theta$. The authors thank A. A. Blyudzin, D. M. Samoylovich, A. N. Charakhch'yan, V. P. Grigor'yev, Ye. L. Feynberg, and G. A. Milekhin for assistance and discussions. There are 8 references: 5 Soviet, 1 Dutch, and

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute of the Academy of Sciences USSR)

SUBMITTED:

April 6, 1960

Card 4/4

S/058/61/000/010/012/100 A001/A101

3.14/0 AUTHORS:

Zhdanov, A.P., Kuks, I.M., Skirda, N.V., Yakovlev, R.M.

TITLE :

On the form of angular distribution of shower particles in jets of

nucleon - nuclear, origin

PERICPICAL:

Referativnyy zhurnal. Fizika, no. 10, 1961, 95-96, abstract 10B493. ("Tr. Mezhdunar, konferentsii po kosmich. lucham, 1959, v. 1", Moscow, AN.SSSR, 1960, 87:- 92)

TEXT; The authors present preliminary results of investigating distributions of shower particles over polar and azimuth angles. The study of 65 jets generated in interactions of high-energy ($E_0=10^{10}-10^{13}$ ev) single-charged particles with nuclei of the emulsion has shown that: 1) Angular distributions of shower particles of these jets possess azimuthal symmetry; they are symmetrical relative to angle $\mathcal{T}/2$ in the center-of-mass system; 2) Multiplicity of anomalous jets can be apparently easily explained from the viewpoint of a single meson production, without resorting to the concept of intranuclear cascade.

[Abstracter's note: Complete translation]

. Dorman

Card 1/1

KUZ'MIN, V. N.; YAKOVLEV, R. M.; YAKOVLEV, Yu. P.

"Investigations of He (p,nn,x 7)He Reactions with 660 MeV Protons."

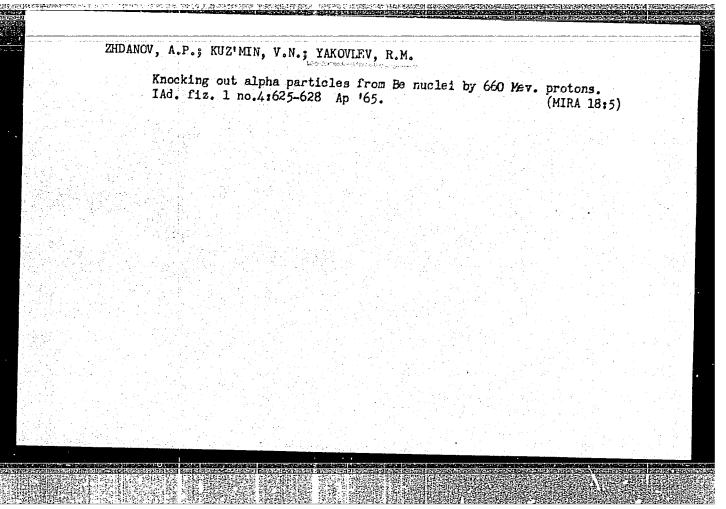
report submitted for All-Union Conf on Nuclear Spectroscopy, Toilisi, 14-22 Feb 64.

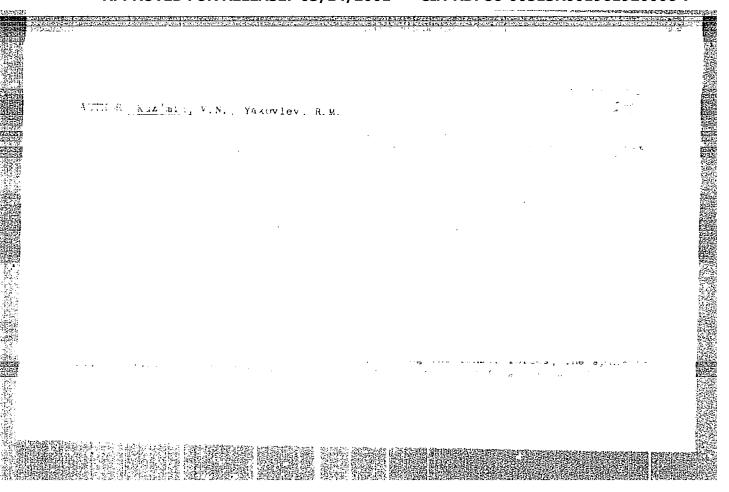
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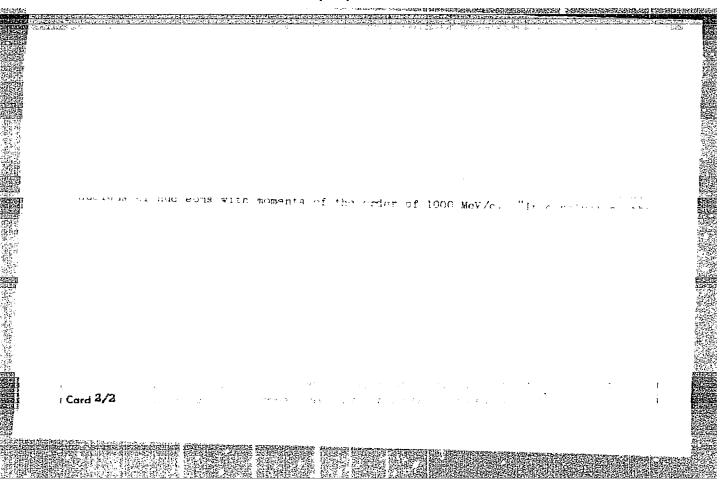
ZHDANOV, A. P.; KUZ'MIN, B. N.; YAKOVLEV, R. M.

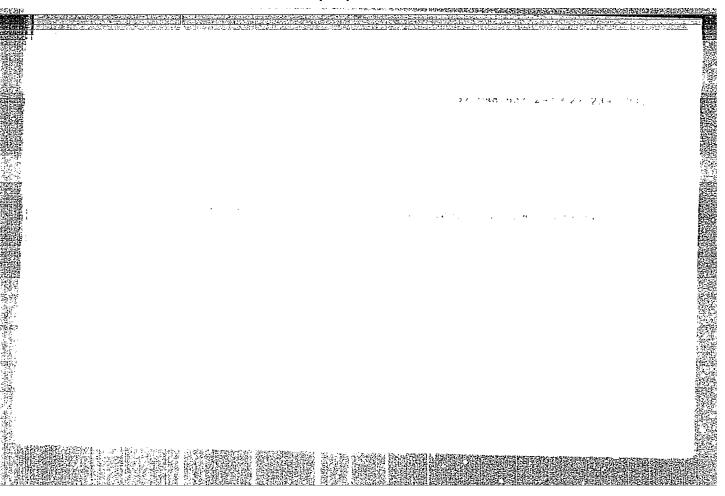
"Knock-out of Alpha Particles from Nuclei if Li, N, and O, by Protons with 660 MeV Energy."

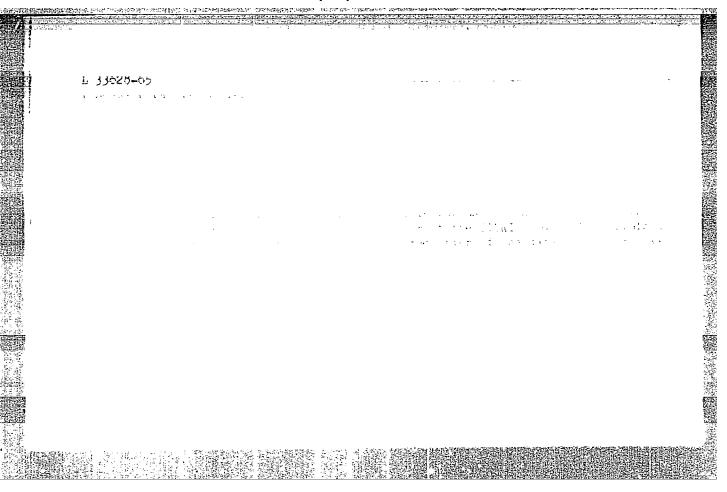
report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.
Radium Inst.











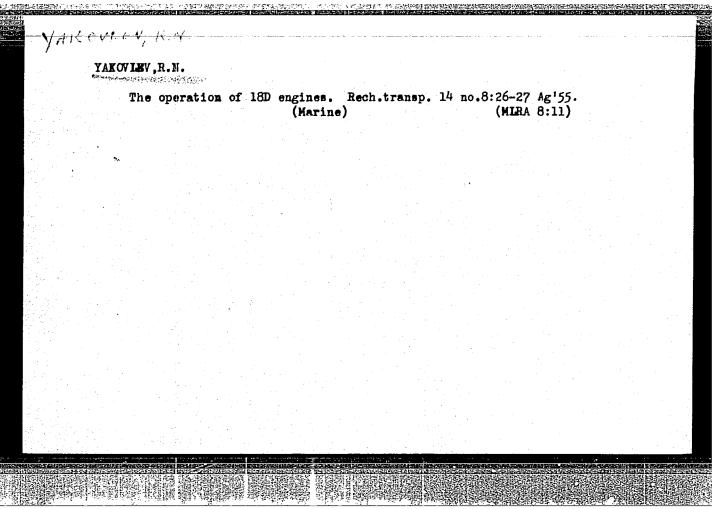
KUZ'MIN, V.N.; YAKOVLEV, R.M.

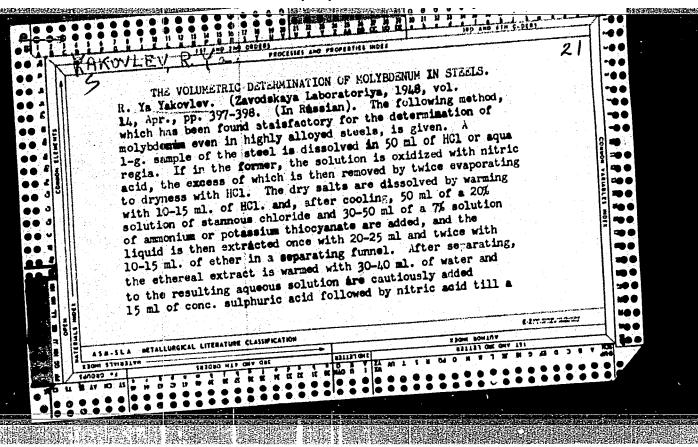
Knocking out alpha particles from carbon nuclei. Izv. AN SSSR. Ser. fiz. 29 no.7:1237-1241 J1 '65.

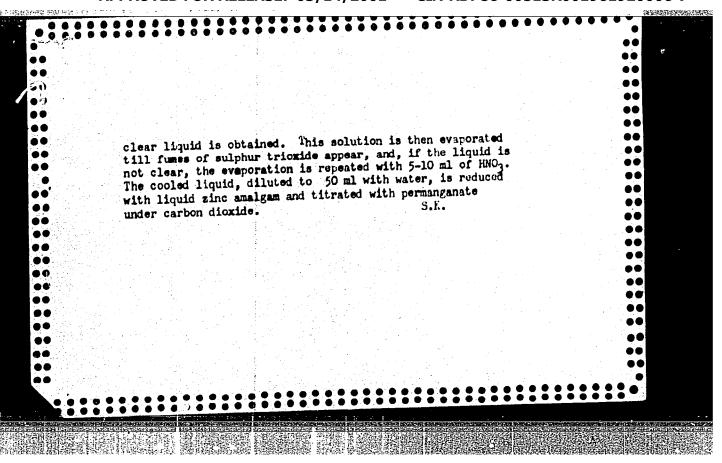
Elastic scattering of 660 Mev. protons by He₂ and He₂ nuclei. Ibid.:1242-1247 (MIRA 18:7)

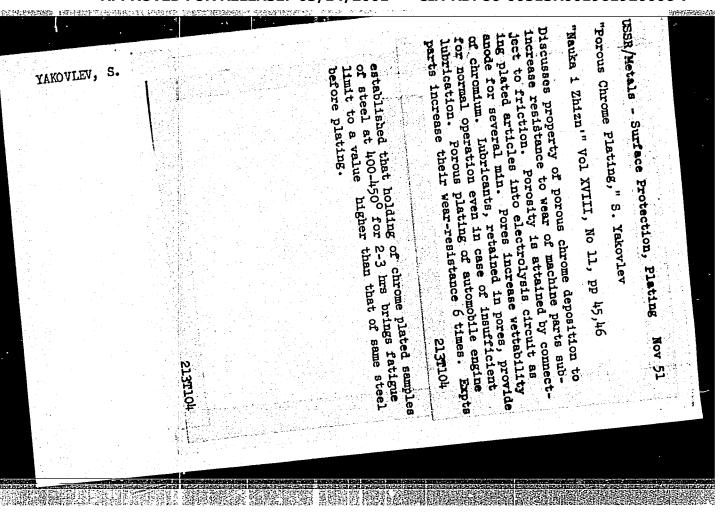
KUZ WIN, V.H.; YAXOVIEW BUNL

Study of the reactions $p+1i7 \rightarrow \mathcal{N}+48$ and $p+1i7 \rightarrow \mathcal{K}+\mathcal{K}$ involving 660 MeV. protons. IAd. fig. 2 no.4:687-690 (MIRA 18:11)





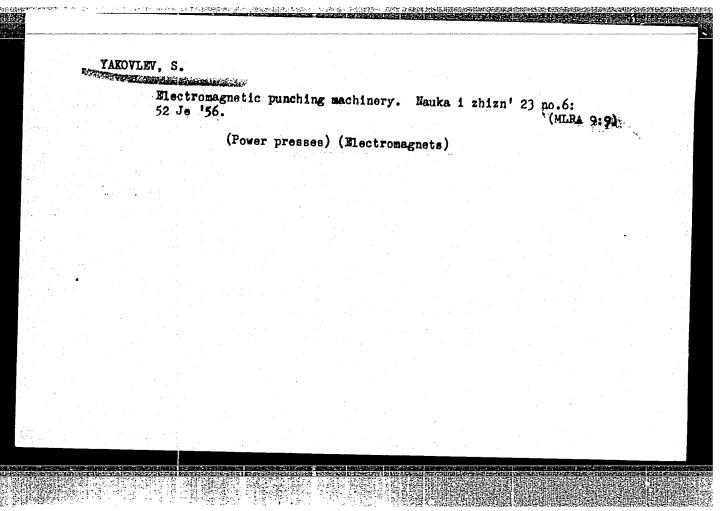


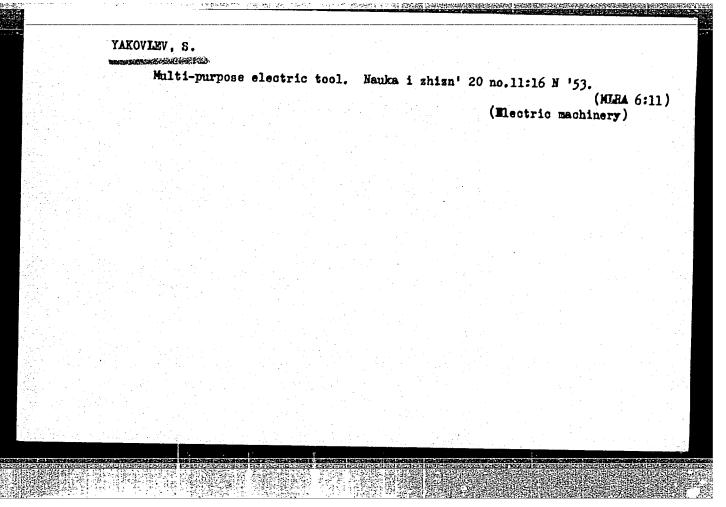


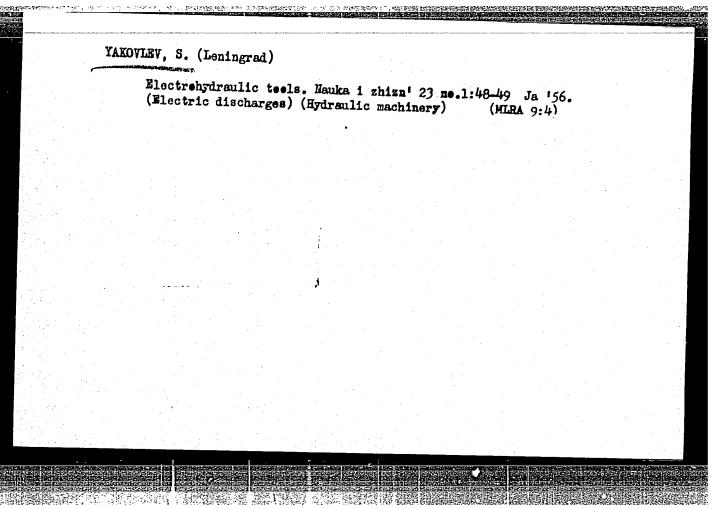
Yinyl Plastic. Nauka i zhizn' 19
No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

2. USSR (600) 4. Plywood 7. Plywood pipes. Nauka i zhizn' 20 No. 3, 1953. 9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.	4. Plywood 7. Plywood pipes. Nauka i zhizn' 20 No. 3, 1953.		1. Y	AKOVLEV, S.					•	
7. Plywood pipes. Nauka i zhizn' 20 No. 3, 1953.	7. Plywood pipes. Nauka i zhizn' 20 No. 3, 1953. 9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.		2. U	ISSR (600)						
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9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.			7. P	lywood pipes.	Nauka i zhi	zn' 20 No.	3, 1953.			
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9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.										
		9.	Month	nly List of Rus	sian Access	lons, Librar	y of Congre	ss, April	1953, Ur	icl.







YAKOV	ilau s
USSR/ Engin	eering - Air conditioning
[발표] 경기 공식 교사들은 지하는데	Pub. 77 - 14/23
Authors	: Yakovlev, S.
Title	Cooling device in the shop
Periodical	* Nauka i Zhizn' 21/10, page 31, Oct 1954
AL LL.	A description is given of an apparatus for factories which draws in outside air, cleans, dries and cools or warms it as need be, its operation being controlled by a thermostat to maintain the desired temperature. Illustration.
Institution	
Submitted	사용하는 경험 경험 경험 기계
	마르마크 (1982년) 1일

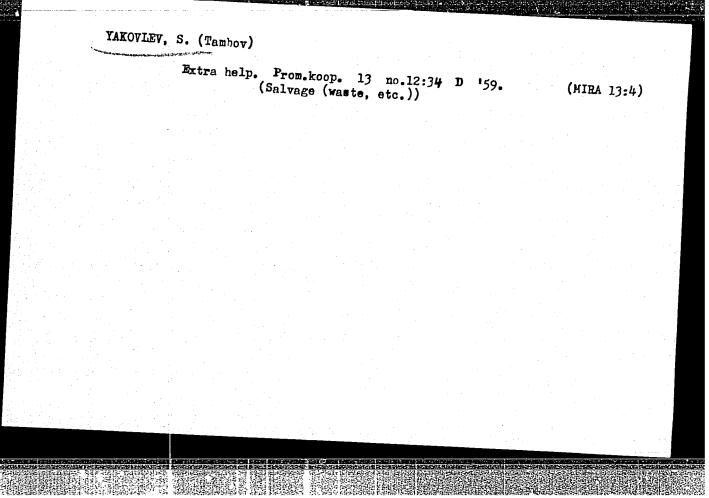
1. YAKOVLEV, S.

2. USSR (600)

4. Architecture

7. Craftsmanship of the architect. Arkhit. SSSR No. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.



WAKOVLEV, S.

DESTR/Chemistry - Removal of Furnace Scale Apr 52

"FKhK (Antiscale Chemical Composition)," S. Yakovlev

*Nauka i Zhizn'" No 4, pp 38-41

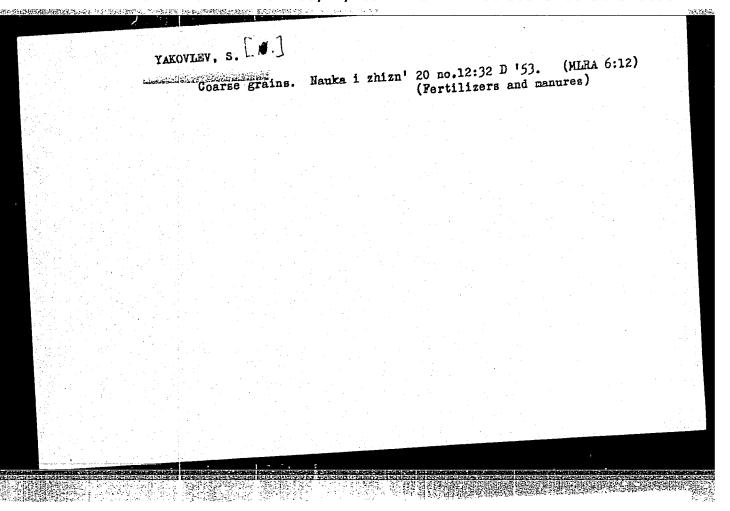
Mentions the prepn "Antinakipin" used for the prevention of scale formation in boilers and deacribes yanov, Engr of the Leningrad RR, for the prevention of deposit formation in fire tubes of locomotives, on the walls and tubes of steamship boilers, etc.

PRINK consists mainly of sodium chloride, which volatilizes and decomposes due to the heat of the furnace; 150-250 g of PKhK are added per ton of fuel.

- 1. YAKOVLEV, S. VASILIEV, O.
- 2. USSR (600)
- 4. Fruit Culture
- 7. In the footsteps of a countryman. Smena. 29, no. 22, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

图 1998年	经保护证据的基本的经验的证据的证明的证明的 医电影 医皮肤 医皮肤 医皮肤 医皮肤 医皮肤 化二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	在社会中的基础的产业
YAKOVLEV, S. []		N 4
ZETT	USSR/Agriculture - Soil treatment "Cementation of Sands," S. Yakovlev "Mauka i Zhizn'" Vol 19, No 7, p 24 Sandy soils can be stabilized against the action of sion sprayed from air planes or from appliances movicularly useful in connection with the planting of work in steppes and deserts. It has been applied in the Kara-Kum and Lower Dnepr regions and will be applied along the course of the Main Turkmen Canal. Institute of VASKANII. Sands treated in this manner resist winds having velocities of up to 9 meters per series.	



YAKOVLEY, S.A.

USSR/Cultivated Plants - Fruits. Berries.

M-6

Abs Jour

: Ref Zhur - Biol., No 20, 1958, 91787

Author

Yakovlev, S.A.

Inst

AS USSR

Title

Water Consumption of a Fruit Orchard.

Orig Pub

V sb.: Biol. osnovy oroshayem. zemled. M. AN SSSR, 1957,

377-384.

Abstract

This article characterizes water consumption at the Kamens-ko-Dneprovsk Experimental and Amelioration Station's irrigated apple orchard situated on the left bank terrace of the Dnepr river. The soils were ordinary slightly humus and slightly clayey chernozem (2-2.5% humus) with the humus layer 50-55 cm thick. The level of subsurface water was 8-10 meters. The field moisture capacity of the soil and subsoil in a layer of 2 meters was 17.8%, the wilting

card 1/2

107

AUTHORS:

Solopko, A.A., Yakovlev, S.A.

SOV/21-58-2-28/28

TITLE:

Determining the Moisture Discharge From an Orchard Surface by the Vertical Gradient of Evaporation (Uchet raskhoda vlagi

sadom po vertikal nomu gradiyentu isparyayemosti)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 2,

pp 230-233 (USSR)

ABSTRACT:

The authors present the results of a comparative study of two methods of determining the actual evaporation from the surface of an orchard of the Kamensko-Dneprovskaya Experimental Station. The first is the balance method based on a determination of soil moisture by boring, a calculation of the moisture stores and precipitations. The second is the gradient method developed by A.A. Solopko and already tested in practice by the Institut lesa (Forestry Institute) of the AS UkrSSR at the Starosel'skaya Biological Station. This method is based on the evaluation of the vertical evaporation difference determined by means of evaporators designed by A.A. Solopko. Comparing the results of both of these methods the authors draw the conclusion that the evaporation data obtained by the gradient method are more precise and reliable not only over the entire period but also for separate inter-

Card 1/2

SOV/21-58-2-28/28

Determining the Moisture Discharge From an Orchard Surface by the Vertical Gradient of Evaporation

vals of time.

There are: 1 table, 1 diagram, and 2 Soviet references.

Ukrainskiy nauchno-issledovatel'skiy institut gidrotekhniki ASSOCIATION:

i melioratsii (Ukrainian Scientific Research Institute of

Hydraulic Engineering and Melioration)

By Member of the AS UkrSSR, P.S. Pogrebnyak PRESENTED:

April 19, 1957 SUBMITTED:

Russian title and Russian names of individuals and institu-NOTE:

tions appearing in this article have been used in the trans-

literation.

Card 2/2 USCOMM-DC-60469

Arutyunov, I. G.; Rev ORG: Arth 19.55 TITLE: Production of Union Scientific Resement (Vsesoyuznyy naumetallurgicheskogo management and the second s	seamless tubes. Class 7, No. 175026. [Announced arch and Design-Planning Institute of Metallurgical chno-issledovatel skiy i proyektno-konstruktorskiy shinostroyeniya)] zobreteniy i tovarnykh znakov, no. 19, 1965, 9 amless tube, thin wall tube, light alloy tube, Metallurgical chromatic characteristic ch	by All- L Equip- institut L rolling ess tubes, btain thin- e, the tube
BYK		

37811

5/120/62/000/002/042/047 E194/E435

24,3900

AUTHOR:

Yakovlev.

The transparency of white sapphire in the ultra-violet TITLE: part of the spectrum as function of temperature

PERIODICAL: Pribory i tekhnika eksperimenta, no.2, 1962, 175

Because of its transparency over a wide range of the spectrum, white sapphire is becoming widely used to make windows. for various light sources. It was noticed that on heating these windows, there was a fall in their transparency near to the short-wave boundary of transmission which was recovered on Measurements of the transmission of sapphire laminae as function of temperature were made on a vacuum monochromator in the light of a hydrogen lamp with a window of lithium fluoride. Fig. 2 shows percentage transmission as function of wavelength in Angstrom units for various temperatures and Fig. 3 shows the transmission boundary in A, at the 5% level as function of The facts presented should be allowed for in designing instruments with sapphire windows that are liable to There are 3 figures. become hot.

Gardist/2

39686 5/051/62/013/001/004/019 E039/E420

24.3100 AUTHORS: Kir'yanova, L.A., Pivovarov, V.M., Yakovlev, S.A.

TITLE:

Card 1/2

The excitation of combination scattering in the orange

and red regions of the spectrum

PERIODICAL: Optika i spektroskopiya, v.13, no.1, 1962, 79-82

TEXT: Description is given of a powerful low voltage helium lamp, intended for the excitation of combination scattering spectra in the orange and red regions of the spectrum. The discharge tube the orange and red regions of the spectrum. The discharge tube is 40 mm in diameter and constructed from 3C-5K glass, working length 120 mm, with oxide coated electrodes and designed for a working current of 8 to 10 A. Near each electrode is an working current of 8 to 10 A. Near each electrode is an auxiliary trigger electrode. The intensity of the He 5875 Å auxiliary trigger electrodes steadily as the helium pressure is line is shown to decrease steadily as the helium pressure is line is shown to decrease steadily as the helium pressure is a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage of 150 to 170 V. The intensities of the 5875, a working voltage v

S/051/62/013/001/004/019 E039/E420

The excitation of combination ...

Using photoelectric and photographic recording the spectrum of o-nitroaniline in acetone (C = 1.3 mole/litre) is obtained and compared with the data of J. Behringer for o-nitroaniline in CCl4 solution. No agreement is obtained over the range observed, i.e. \sim 350 to 1600 cm⁻¹. The spectrum of CCl4 excited by the He lines 5875, 6678 and 7065 Å is also examined (only anti-Stokes region). There are 5 figures and 2 tables.

SUBMITTED: May 19, 1961

Card 2/2

L 9856-63

BDS

AP3000590 ACCESSION NR:

8/0051/63/014/005/0716/0720

AUTHOR: Yakovleyv

TITLE: Xenon resonance tube

SOURCE: Optika 1 spektroskopiya, v. 14, no. 5, 1963, 716-720

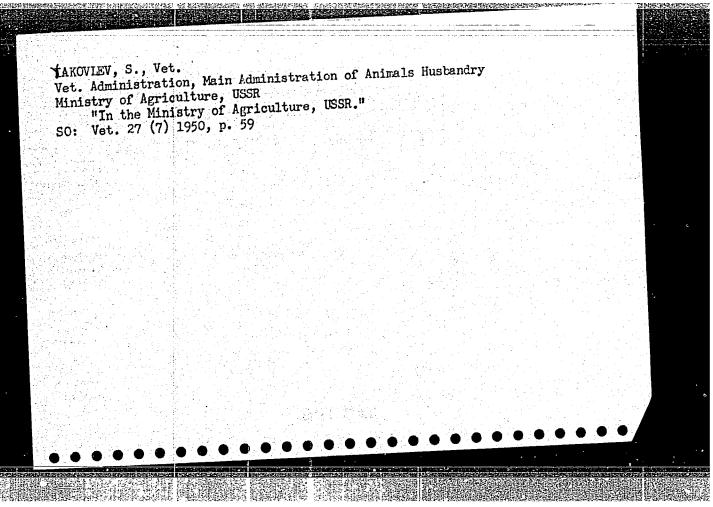
TOPIC TAGS: discharge tubes, xenon

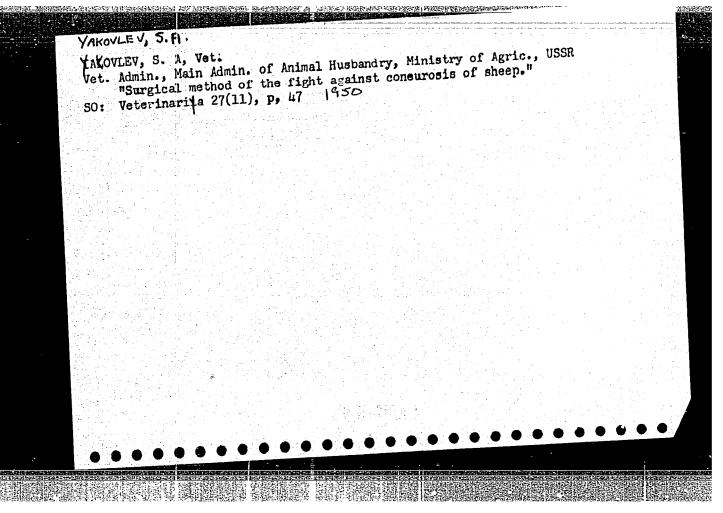
ABSTRACT: A xenon discharge tube designed to emit the 1295 and 1470 Angstrom resonance lines has been developed. The discharge conditions are chosen so as to obtain the maximum possible intensity of the 1470 Angstrom line. The tube has a fluorite window attached by means of epoxy cement. Curves showing the variation in intensity of the 1244.8, 1295, 1470 and 2476 Ansgtrom lines as a function of the discharge current are given. The principal internal components are an oxide-coated cathode, an anode, a shielding cylinder and a "discharge capillary" (a molybdenum wire helix with an inside diameter of 4 mm). The results of internal absorption studies are summarized. "The author thanks S. A. Kulikov and T. N. Kochurov for assistance in carrying out the work."

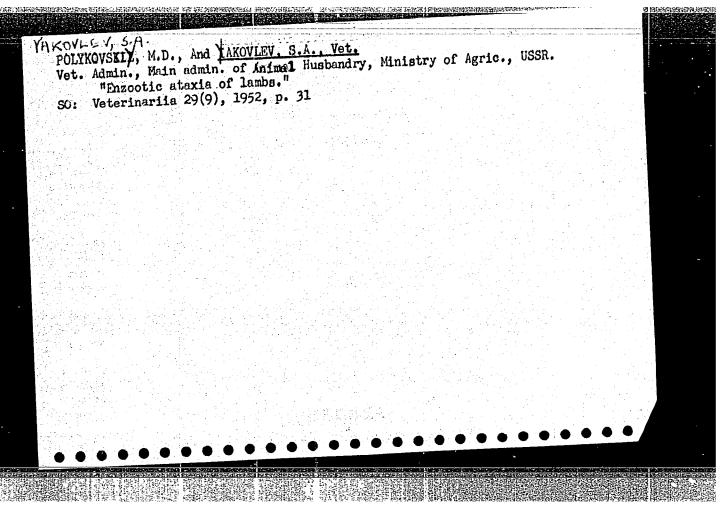
L 9856-63 ACCESSION NR: AP3000	그 사람들은 사람들이 되었다면서 사람들이 얼마를 들어가 되었다면 하는 것이다.		0
Orig. art. has 1 equa	ation and 6 figures.		
ASSOCIATION: none	명리 기를 통해 있는 것이 같은 것이다. 강기 기술 등 기를 가는 것이 있는 것이다.		
SUBMITTED: 26Jul62	DATE ACQ: 12Jun63	ENCL: 00	
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172			
nh/ja Card 2/2			
Card 2/2			

EPR/EMP(1)/EPF(c)/EMT(m)/BDS AFFTC/ASD L 14263-63 8/0032/63/029/008/1007/ ACCESSION NRI AP3004576 AUIHOR: Fiveyslaya, A. K.; Yakovlev, S. A. TITIE: A method for bonding optical crystal windows to lamps and vessels. [Report presented at a conference on spectroscopy held in Gor'kly from 5 to 12 July 1961] SOURCE: Zavodskaya laboratoriya, v. 29, no. 8, 1963, 1007 TOPIC TAGS: spectroscopy, bonding, vacuum-tight bonding, gasket, fluoroplast-3, polychlorotrifluoroethylene, Kel-F, fluorite, lithium fluoride, ultraviolet light source, OK-50, OK-50 heat-resistant adhesive ABSTRACT: A method has been proposed for the vacuum-tight bonding of a window of crystalline material to a glass vessel for service in the -195 to +1500 temperature range. A flat ring-type gasket of fluoroplast-34 polychlorotrifluoroethylene], pretreated with a solution of sodium naphthalene complex in tetrahydrofuran, was bonded with OK-50 heat-resistant adhesive between the window and the vessel to compensate for the difference in thermal expansion coefficient. After bonding, the part is held at 60-1500 for 3 hr. The method has been tested with fluorite and lithium fluoride windows in vacuum ultraviolet light sources. Card

L 8214-66 EVT(1)/EVT(m)/EWP(t)/EWP(b) IJP(c)
SOURCE CODE: UR/0368/65/002/004/0363/0364 ACC NR: AP5013862 AUTHOR: Yakovley, S. A.; Volkova, G. A. ORG: none 21,44,55 TITLE: Use of the thermoluminescence method to measure the radiation intensity from xenon resonance tubes SOURCE: Zhurnal prikladnoy spektroskopii, v. 2, no. 4, 1965, 363-364 TOPIC TAGS: line intensity, UV radiation, xenon, thermoluminescence ABSTRACT: The authors use the thermoluminescence method for measuring radiation intensity from xenon tubes which emit monochromatic radiation on the 1470 and 1295 Å resonance lines. A manganese-activated calcium sulfate thermophosphor was used as the radiation dosimeter. The equipment and procedure are briefly described. The two types of tubes studied are described in a previous work by one of the authors (S. A. Yakovlev, Opt. i spektr., 14, 716, 1963). The radiation intensity (in quanta/sec) for tube type I was 8.1015 at 1470 Å and 5.104 at 1295 Å. For tube type II, the intensity was 5.1016 at 1470 Å and 6.1014 at 1295 Å. The measurement error was 40-59%; In conclusion, the authors are grateful to V. A. Arkhangel'skaya and T. K. Razumova for valuable assistance and consultation in the course of this work. Orig. art. has: OTH REF: 001 1 table. ORIG REF: 003/ SUBM DATE: 24Nov64/ OP/ SUB CODE: 535.231.1 : 621.327.52 : 535.377 UDC: (V)







VELICHKIN, P. A., professor; YAKOVLEV, S.A.

Toxicity of phenothiazine in horses. Veterinariia 30 no.8:46-49
(MIRA 6:8)
Ag '53.

1. Starshiy veterinarnyy vrach Vetupravleniya Glavshivupra
Ninisterstva sel'skogo khozyaystva i zagotovok SSSR (for Yakovlev)

VYAKOVIEV, S. A. Veterinary Card 1/1 Yakovlev, S. A., Senior Veterinary Physician Author On immunoprophylaxis against distemper Title Veterinariya, 6, 28-30, June 1954 Periodical The veterinary section of the scientific-technical council of the Ministry of Agriculture USSR, has recommended the polyvalent embryo-formol-aluminum hydro-Abstract xide vaccine and hyperimmune serum of Ye. S. Cherkasskiy in the treatment and prophylaxis of distemper. The vaccine was tested in different parts of the USSR, under various climatic conditions; it produced dependable immunity in adult animals, lasting at least 6 months. Distemper was successfully treated by injection of a double prophylactic dose, 2-3 times. Cherkasskiy originally obtained the vaccine and serum by inoculating the developing chicken embryo with the virus taken from pupples and then inoculating the pupples with the virus taken from the developing chicken embryo. By means of this cross inoculation it is possible to change the nature of virus and to attenuate it to

lost. This vaccine has been manufactured since 1950 by the All-Union Scientific-Research Institute of Commercial Hunting IVNIO.

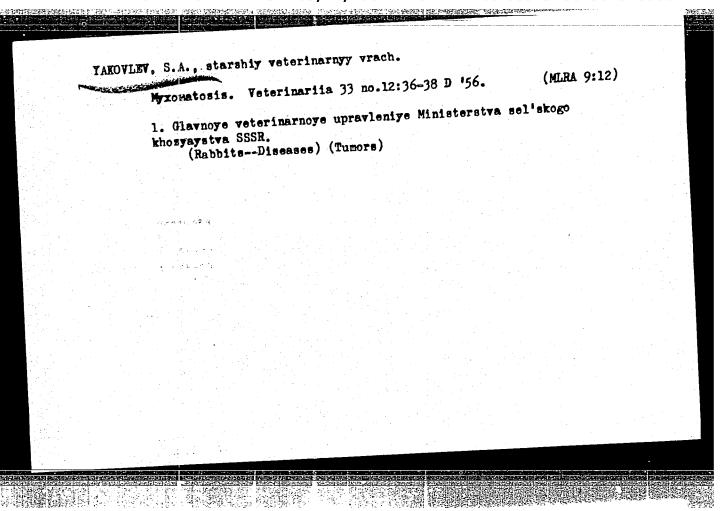
Institution

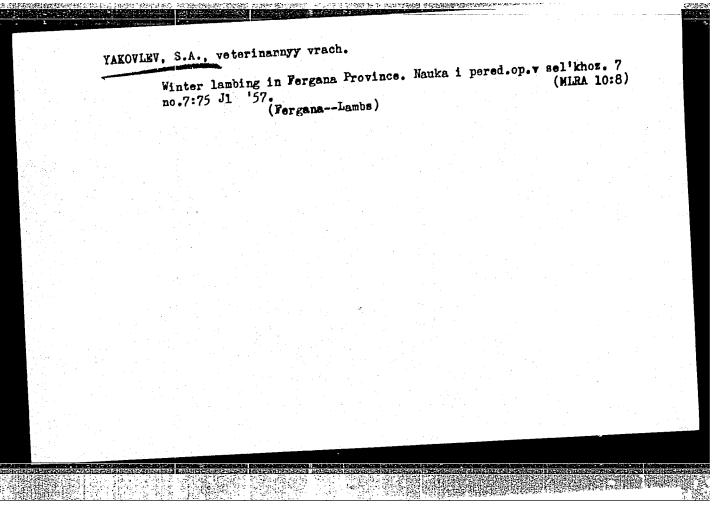
Veterinary Administration, Main Administration of Animal Husbandry,

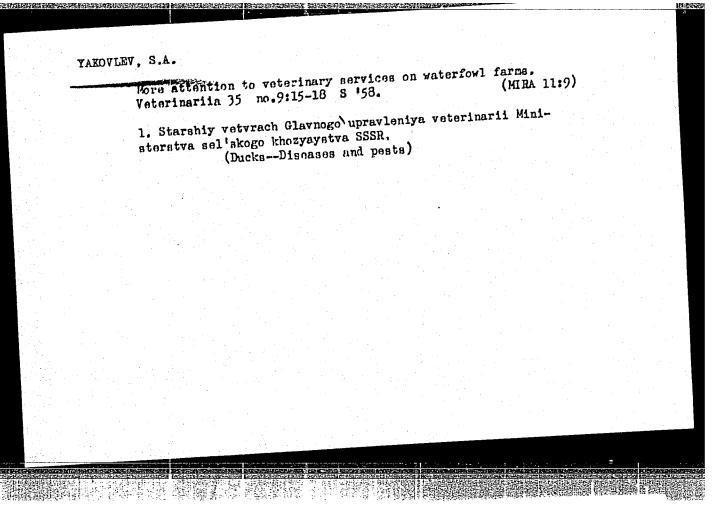
the extent that all the virulent properties of the virus become completely

Ministry of Agriculture USSR

Submitted







PANASYUK, D.I., kand. veterinarnykh nauk; YAKOVIEV, S.A.

Phenothiazine is a highly effective drug for the control of dictyocaulosis and other strongylosis infections in sheep. Veterinariia 36 no.9:27-29 S '59. (MIRA 12:12)

1. Vsesoyuznyy institut gel'mintologii im. akademika K.I. Skryabina (for Panasyuk). 2. Starshiy veterinarnyy vrach Gosudarstvennoy inspektsii po veterinarii Ministerstva sel'skogo khozyaystva SSSR (for Yakovlev). (Phenothiazine) (Sheep--Diseases and pests)

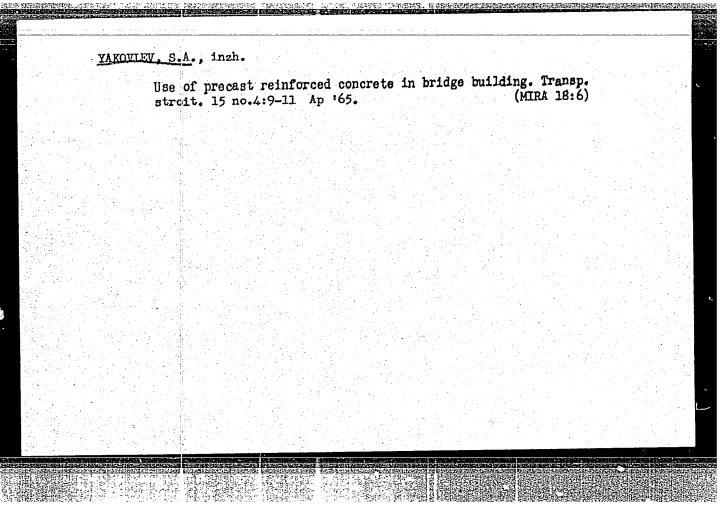
YAKOVLEV, S.A.

Achievements of helminthology in the service of production. Veterinariia 42 no.8:52-53 Ag 165.

(MIRA 18:11)

1. Glavnyy spetsialist po boleznyam ptits Glavnogo upravleniya veterinarii Ministerstva sel'skogo khozyaystva SSSR.

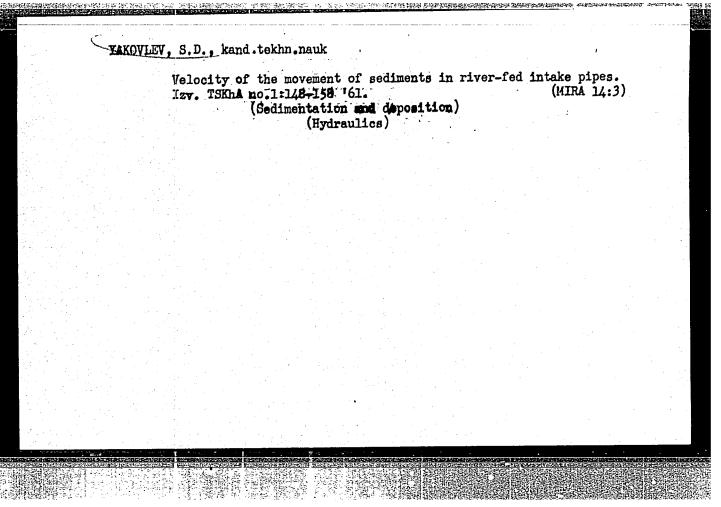
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YAKOVLEV, S.D., assistent, kand.tekhn.nauk

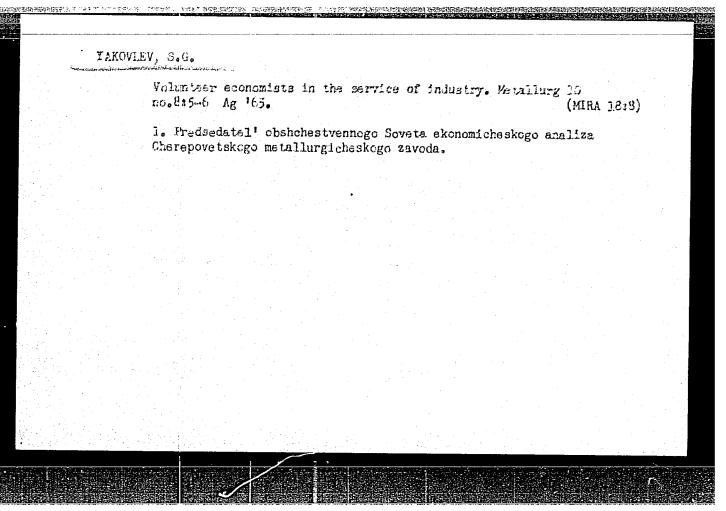
Movement of silt in pipes with low and high saturation. Trudy
MINESKH 8:150-170 '59.

(Silt)



YAKOVLEV, S.D., kand. tekhn. nauk

Hydraulic calculation of water pipes taking into account the transportation of suspensions. Vod. i san. tekh. no.1:5-9
Ja '66. (MIRA 19:1)



YELYUTIN, V.P., MOZZHUKHIN, Yo.I.; YAKOVLEV, S.G.

Investigating the self-diffusion of cabult in specimens of achelt and Co - Al203 compositions prepared by powder metallurgy methods. Fiz. met. i metalloved. 19 no.3:389-396 Mr '65. (MIRA 18:4)

1. Moskovskiy institut stali sesplavov.

EMPLY CATED SEMPLE SEPPLE EPPLE DEPRENTABLE SEMPLE SEMPLE 1-- 12-- 30-- 3 AUTHOR: Yelyutin, V. P.; Hozzhukhin, Ye. I.; Yakovlev, S. G. 44 The same of god TITLE: Self-diffusion of cobalt in specimens of cobalt and a Co+ Al₂O₃ composition prepared by powder metallurgy methods SOURCE: Fizika metallov i metallovedeniye, v. 19, no. 3, 1965, 389-336 TOPIC TAGS: cobalt, self diffusion, alumina, powder_metallurgy ABSTRACT: The effect of dispersed inclusions of Al203 on the self-diffusion of cobalt was studied. Hot-worked specimens were prepared from pressed blanks sintered at 1475°K in hydrogen for 2 hrs. It is shown that both in tobal' and in Co-Al₂O₃ compositions precured by cowder metallungy methods, difficult process. occur at higher rate: than in dense total prepared by the isual metallurgital methods. The difference between the coefficients of self-liffusion to a contract and dense or all decreases with temperature. The temperature dependence of the effective coefficient of self-diffusion of obtain powder metallurgy sie imen changes at 1750s which is the result of diffusion processes along grain boundaries Card 1/2

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ACCESSION NR: AP-008784				į
of sintered specimens at low trease the coefficients of self-accompanies by a reduction	elf-diffusion. The	formation of inc.	iusion apprepares	i.
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N = 47 '				

VOLYNSKIY, Z.M., professor; ISAKOV, I.I.; YAKOVLEV, S.I.; KEYZER, S.A.

Characteristics of arterial pressure in inhabitants of Leningrad during the postwar years and normal blood pressure. Terap. arkh. 26 no.3:3-9 My-Je '54. (MIRA 7:9)

1. Is Voyenno-morskoy meditsinskoy akademii (ELOOD PRESSUER, statistics, Russia)

YAKOVLEV, S.I., doktor med.nauk; DOROFEYEV, G.I., kand.med.nauk; ONIKIYENKO,
B.A.; POLUNOVA, Ye.N.

Clinical aspects and remote results of the treatment of acute
poisoning with methyl alcohol. Voen.-med.zhur. no.3:40-44 hr '61.

(MIRA 14:7)

(METHANOL-TOXICOLOGY)

\$/194/61/000/012/080/097 D273/D301

Gurevich, M. D., Klynkachev, V. A., Sobakin, M. A.

and Yakovlev, S. I. AUTHORS:

Ultrasonic diagnostic apparatus for the study of soft

tissues Y3A-4 (UZD-4) TITLE:

Referativnyy zhurnal, Avtomatika i radioelektronika, PERIODICAL:

no. 12, 1961, 22, abstract 12E122. ("Novosti med. tekhn." 1960, no. 6, 3-17)

TEXT: The possibilities of ultrasonic diagnostics are examined. The diagnostic apparatus UZD-4 designed in the BHUNMUAO (VNIIMIiO) is described. It is noted that one of the most important parameters of the instrument - the maximum depth action - is almost entirely determined by the ultrasonic damping coefficient in tissues and to a lesser degree depends on the power of the transmitter, the sensitivity of the receiver and other factors. The UZD-4 works at frequencies of 2.5; 5; 10 and 15 Mc/s, a launching frequency of 1000 c/s, and a pulse length of 3 microseconds. The depth of sound

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961920006-7"

Ultrasonic diagnostic apparatus ...

S/194/61/000/012/080/097 D273/D301

ing at 2.5 Mc/s reaches 90 mm and the destructive mode forms at a depth of 3.5 mm and at an azimuth of 5 mm. For 15 Mc/s, these parameters are respectively equal to 20, 1.2 and 5 mm. The power consumption is 1.4 KVA. The instrument has 2 J/IT (ELT): The first tube with a linear afterglow and brightness modulation is designed to obtain a two-dimensional representation of organ sections along the scanning beam; the second tube with an oscillographic reamer is used with a fixed position indicator. A detailed description is given of the generator circuit of the UZD-4 and constructional details of the instrument. A sketch is given of the scanning position indicator consisting of a hermetically sealed body with a tube of determined length, in which a piezoelectric converter has a back and forth movement. As indicator of the position of the piezoelement, a linear potentiometer is used, whose potential is amplified and applied to the deflection system of the ELT. 5 figures. 1 table. / Abstractor's note: Complete translation. /

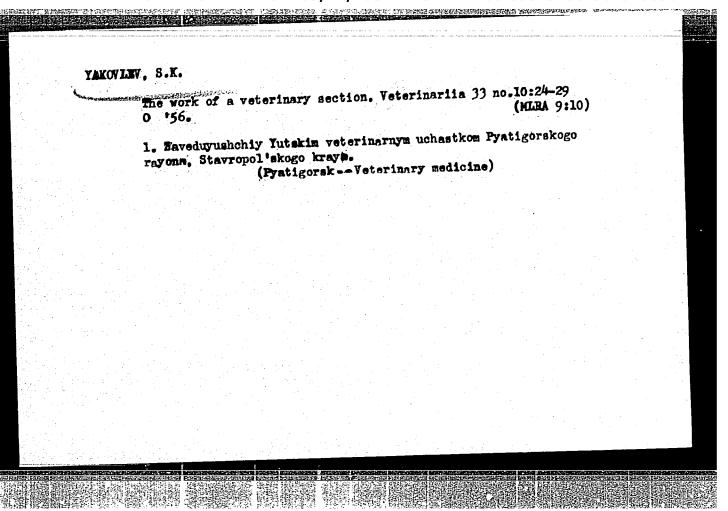
Card 2/2

YAKOVLEV, Sergey Il'ich

Academic degree of Doctor of Medical Sciences, based on his defense, 13 July 1955, in the Council of the Military Naval Medical Academy, of his dissertation entitled: "The role and significance of the nervous system and the vitamins of the B-complex group in erythroieses."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 24, 26 Nov 55, Byulleten' MVO SSSR, No. 20, Oct 57, Moscow, pp 22-24, Uncl. JPRS/NY-471



YAKOVLEV, S. [M.]

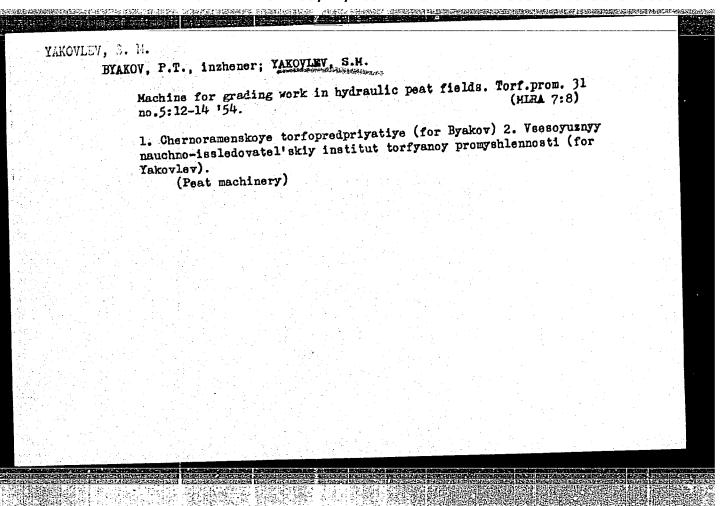
"Baltika," Radio, No.1, pp 22-24, 1953

Discusses modernization in 1952 of the Baltika 2nd class superhet receiver produced by VEF plant. Receiver has following bands: long wave 150-415 kc; medium wave, 520-1,600 kc; and 2 sw, 3.95-9.2 Mc and 9.0-12.1 Mc. The rated output power is at least 1.5 w. Sensitivity is at least 200 v on long and medium waves and 300 uv on sw. Selectivity is at least 26 db for 10 kc detuning. Discusses changes in set, which were primarily in the af section.

YAKOYLEY, Sergey Malekhiyevich; VALIKOVA, K., red.; FILIPPENKOVA, M., tekhn.red.

[Gleb Vasil'evich Alekhnovich, a pioneer of Russian aviation; his life and work] Pioner russkoi aviatsii Gleb Vasil'evich Alekhnovich; ocherk zhizni i deiatel'nosti. Smolensk, Smolenskoe knizhnoe izd-vo, 1960. 40 p. (MIRA 13:10) (Alekhnovich, Gleb Vasil'evich, 1886-1918)

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JHKCVLCV, LVan Ignat'yevich; YAKOVLEV, Sergey Malakhiyevich; KHOROSHAVIN, N.I., redaktor; LARIOMOV, G.Te., tekhnicheskiy redaktor.

[Winning cut peat with a string of machines] Dobycha fresernogo torfa ukrupnennymi kolonnami mashin; opyt raboty Orichevskogo torfopredpriiatiia. Moskva, Gos.energ.izd-vo, 1955. 29 p.(MLRA 8:11)

(Peat)

OREM, Leonid Nikolayevich; YAKOVLEW, Sergey Melakhiyevich; DOMASHIN,
V.A. redaktor; ZABRODINA, A.A., tekhnicheskiy medaktor.

[Innovators in electric engineering in the peat industry] Elektrikinovatory torfianci promyshlennosti. Pod red. V.A. Domashina. Moskva,
Gos. energ. izd-vc, 1955. 85 p.

(Electric engineering) (Peat industry)

(Electric engineering)

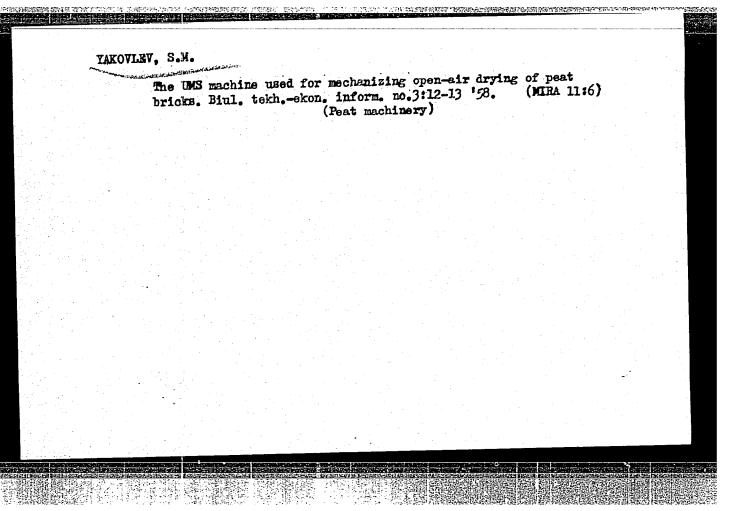
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DOMASHIN, Valentin Aleksandrovich; OPEM, Leonid Nikolayevich; YAKOVLEV,
Sergey Malakhovich; KCLOTUSHKIN, V.I., red.; CHEMNOV, V.S., tekhn.
red.

[Electricians as innovators in the peat industry] Elektrikinovatory toriianci promyshlennosti. Moskva, Gos. energ. izd-vo.
(MIRA 11:7)
Pt.2. 1957. 93 P. (Peat machinery)

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